Please amend the above-identified application as follows:

In the Claims:

1. (Currently Amended) A computed tomography assembly comprising:

an x-ray gantry assembly;

an x-ray source projecting a beam of x-rays;

a detector assembly positioned opposite said x-ray source, said detector assembly receiving said beam of x-rays after said beam of x-rays pass through an object;

a control mechanism in communication with said x-ray source and said detector assembly;

an elevation reference in communication with said control mechanism, said control mechanism comprising logic adapted to:

execute at least one scout scan of said object, said at least one scout scan producing a first scout scan image;

generate an elliptical patient model based on said first scout scan image;

match said elliptical patient model to a phantom diameter approximation;

generate a dose report based on said phantom diameter approximation; ~~and~~

display said dose report on a display, said display in communication with said control mechanism; and

utilize said elevation reference in combination with said at least one scout scan to generate said elliptical patient model.

2. (Original) A computed tomography assembly as described in claim 1, wherein said at least one scout scan comprises two orthogonal scout scans.

3. (Original) A computed tomography assembly as described in claim 1, wherein said at least one scout scan comprises:

a lateral scout scan; and

an anteroposterior scout scan.

4. (Cancelled)

5. (Original) ~~A computed tomography assembly as described in claim 1, further comprising:~~ A computed tomography assembly comprising:

an x-ray gantry assembly;

an x-ray source projecting a beam of x-rays;

a detector assembly positioned opposite said x-ray source, said detector assembly receiving said beam of x-rays after said beam of x-rays pass through an object;

a control mechanism in communication with said x-ray source and said detector assembly;

at least one laser position measurement device in communication with said control mechanism, said control mechanism comprising logic adapted to:

execute at least one scout scan of said object, said at least one scout scan producing a first scout scan image;

utilize said laser position measurement device in combination with said at least one scout scan to generate said elliptical patient model;

match said elliptical patient model to a phantom diameter approximation;

generate a dose report based on said phantom diameter approximation; and

display said dose report on a display, said display in communication with said control mechanism.

6. (Currently Amended) ~~A computed tomography assembly as described in claim 1, further comprising:~~ A computed tomography assembly comprising:

an x-ray gantry assembly;

an x-ray source projecting a beam of x-rays;

a detector assembly positioned opposite said x-ray source, said detector assembly receiving said beam of x-rays after said beam of x-rays pass through an object;

a control mechanism in communication with said x-ray source and said detector assembly;

at least one sonic displacement device in communication with said control mechanism, said control mechanism comprising logic adapted to:

execute at least one scout scan of said object, said at least one scout scan producing a first scout scan image;

utilize said sonic displacement device in combination with said at least one scout scan to generate said elliptical patient model; and

match said elliptical patient model to a phantom diameter approximation;

generate a dose report based on said phantom diameter approximation; and

display said dose report on a display, said display in communication with said control mechanism.

7. (Original) A computed tomography assembly as described in claim 1, wherein said logic is adapted to further comprise:

utilizing said elliptical patient model to generate a dose minimized imaging sequence.

8. (Original) A computed tomography assembly as described in claim 7, wherein said dose report is generated by combining said phantom diameter approximation with said dose minimized imaging sequence.

9. (Original) A computed tomography assembly as described in claim 7, wherein dose minimized imaging sequence comprises:

adjusting a bowtie element positioned within said x-ray source to minimize radiation exposure to said object.

10. (Original) A computed tomography assembly as described in claim 7, wherein dose minimized imaging sequence comprises:

adjusting a current modulation of said x-ray source to minimize radiation exposure to said object.

11. (Original) A computed tomography assembly as described in claim 7, wherein dose minimized imaging sequence comprises:

calculating object centering information;

adjusting a current modulation of said x-ray source to compensate for said object centering information.

12. (Original) A computed tomography assembly as described in claim 7, wherein dose minimized imaging sequence comprises:

calculating object centering information;

adjusting a bowtie element positioned within said x-ray source to compensate for said object centering information.

13. (Currently Amended) A computed tomography assembly comprising:

an x-ray gantry assembly;

an x-ray source projecting a beam of x-rays;

a detector assembly positioned opposite said x-ray source, said detector assembly receiving said beam of x-rays after said beam of x-rays pass through an object;

a control mechanism in communication with said x-ray source and said detector assembly, said control mechanism comprising logic adapted to:

execute at least one scan of said object, said at least one scan producing a first scan image;

generate an elliptical patient model based on said first scan image;

match said elliptical patient model to a phantom diameter approximation;

generate a dose report based on said phantom diameter approximation;

display said dose report on a display, said display in communication with said control mechanism; and

utilize said elliptical patient model to generate a dose minimized imaging sequence;

wherein dose minimized imaging sequence comprises:

calculating object centering information;

adjusting a current modulation of said x-ray source to compensate for said object centering information.

14. (Original) A computed tomography assembly as described in claim 13, wherein said dose report is generated by combining said phantom diameter approximation with said dose minimized imaging sequence.

15. (Original) A computed tomography assembly as described in claim 13, wherein dose minimized imaging sequence comprises:

adjusting a bowtie element positioned within said x-ray source to minimize radiation exposure to said object.

16. (Original) A computed tomography assembly as described in claim 13, wherein dose minimized imaging sequence comprises:

adjusting a current modulation of said x-ray source to minimize radiation exposure to said object.

17. (Cancelled)

18. (Original) A computed tomography assembly as described in claim 13, wherein said at least one scan comprises two orthogonal scout scans.

19. (Original) A computed tomography assembly as described in claim 13, wherein said at least one scan comprises a contour displacement sensor scan.

20. (Currently Amended) A method of imaging an object utilizing a computed tomography assembly comprising:

executing at least one scout scan of the object, said at least one scout scan producing a first scout scan image;

utilizing an elevation reference in combination with said at least one scout scan to generate an elliptical patient model

~~generating an elliptical patient model based on said first scout scan image~~ using a control mechanism;

matching said elliptical patient model to a phantom diameter approximation using said control mechanism;

generating a dose report automatically based on said phantom diameter approximation; and

display said dose report on a display, said display in communication with said control mechanism.